\_\_\_\_\_\_

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)

217-9197 (toll free).

Reviewer: markspencer

Timestamp: Thu Jun 28 15:14:22 EDT 2007

\_\_\_\_\_

## Validated By CRFValidator v 1.0.2

Application No: Version No: 10587683 1.0

Input Set:

Output Set:

**Started:** 2007-06-26 17:51:50.070 Finished:

2007-06-26 17:51:51.071

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 1 ms

Total Warnings: 0

Total Errors:

No. of SeqIDs Defined: 10

> Actual SeqID Count: 10

## SEQUENCE LISTING

<110>	EXEI	LIXIS, IN	1C.					
<120>	ITPE	KS AS SMO	DDIFI	ERS OF THE	IGFR PATHV	VAY AND METH	HODS OF USE	
<130>	EX05	5-004C-PC	C					
<140>	1058	37683						
<141>	2007	7-06-26						
<150>	US 60	)/539,837	7					
<151>	2004	1-01-28						
<160>	10							
<170>	Pate	entIn ver	rsion	3.2				
<210>	1							
<211>	1782	2						
<212>	DNA							
<213>	Homo	sapiens	5					
<400>	1							
gaattcc	cgga	aatgacco	ctg c	ccgggggcc	caacgggcat	ggcgcggccg	gggggcgcga	60
ggeceto	gcag	cccgggg	ctg g	gagegggeee	cgcgccggag	tgtcggggag	ctgcgcctgc	120
tcttcga	aggc	gcgctgtç	aca d	geggtegetg	cggccgccgc	cgcgggggag	ccccgggccc	180
gegggge	ccaa	geggegte	ddd d	ggacaggtcc	ccaacgggct	teegeggget	ccccggccc	240
cggtgat	ccc	tcagctga	acc g	gtgacagccg	aggagcccga	cgtgcccccg	accagecetg	300
ggeegee	cgga	gcgggaga	agg g	gactgcctcc	cggcagcggg	ctcttcgcac	ctgcagcagc	360
cgcgccc	gcct	ttccacct	cg t	cggtctcct	ccactggctc	ctcgtcgctg	ctcgaggact	420
cggagga	acga	cctgctga	agc g	gacagtgaga	gccggagccg	cggcaacgtg	cagctggaag	480
cgggcga	agga	cgtgggtd	cag a	aaaaccact	ggcagaagat	ccggaccatg	gtcaatctgc	540
cggtcat	aag	ccctttca	aag a	agcgctacg	cctgggtgca	gctggcaggg	cacactggga	600
gttttaa	aggc	ggcgggca	acc a	agcgggctga	tcctgaagcg	ctgctcggag	ccggagcgct	660
actgcct	ggc	gcggctga	atg g	getgaegege	tgcgcggctg	cgtgcctgcc	ttccacggcg	720
tggtgga	agcg	cgacggcg	gaa a	agctacctgc	agctgcagga	cctgctcgat	ggcttcgacg	780
gacctto	gtgt	gctcgact	gc a	aaatgggcg	tcaggactta	cctagaggag	gagctgacca	840
aggcccg	gtga	gcggccca	aag c	tgcggaagg	acatgtacaa	gaaaatgctg	gcggtggatc	900
ctgaagc	ctcc	cacggagg	gag g	gagcacgcgc	agcgcgccgt	caccaagccg	cgctacatgc	960

agtggcggga aggcatcagc tccagcacca ccctcggctt ccgcatcgag ggcatcaaga 1020

aagcggacgg	ctcctgcagc	accgacttca	agactacgcg	aagccgagag	caggtgcttc	1080
gcgtctttga	agagtttgtg	caaggagatg	aggaagtgct	gaggcggtat	ctgaaccgcc	1140
tgcagcagat	ccgggacacc	ctggaggtat	ccgagttctt	caggaggcac	gaggtgatcg	1200
gcagctcgct	cctctttgtg	cacgatcact	gccatcgcgc	cggcgtgtgg	ctcatcgact	1260
tcggcaagac	cacgcccctc	cccgatggcc	agatcctgga	ccaccggcgg	ccctgggagg	1320
agggcaaccg	cgaggacggc	tatttgctgg	ggctggacaa	tctcattggc	atcctggcca	1380
gcctggctga	gagatgaggc	tggactcctg	teeeegeggg	ccgctcacct	gacatgtgga	1440
cctgcagctt	tgtccccact	gtgcatgccg	gcttgagact	ggagccccgc	ggtgcagggc	1500
agttcaccgg	gtcctgcagg	accaggtgcc	agccactaag	ggggggcacc	gccgatgcca	1560
ggggttttgc	ccacccgggc	cccagcgttc	ccagagccaa	atgacactaa	cttatagaag	1620
gggaggggc	aaagggcttc	ttcctcaggc	cagctcttct	gaggaggctc	tgccctctcc	1680
agaggtgcca	gaccgcggat	tttatttagc	aagcccagac	cttccggtct	aacgtctcac	1740
accacgacgg	actccccttc	ctaataaaac	tcaaagacaa	aa		1782

<210> 2

<211> 1837

<212> DNA

<213> Homo sapiens

## <400> 2

ggtctccggc gcgccgcggg ctggtgggct cagcggcggc gccggcactg ggaaatgacc 60 ctgcccgggg gcccaacggg catggcgcgg ccggggggcg cgaggccctg cagcccgggg 120 ctggagcggg ccccgcgcag gagtgtcggg gagctgcgcc tgctcttcga ggcgcgctgt 180 geggeggteg etgeggeege egeegegggg gageeeeggg eeegegggge eaageggegt 300 gggggacagg tececaaegg getteagegg geteeeegg eeeeggtgat eeeteagetg acceptgacag cegaggagee egaceptgeee eegaceagee etgggeegee ggagegggag 360 agggactgcc tcccggcagc gggctcttcg cacctgcagc agccgcgccg cctttccacc 420 tegteggtet cetecactgg etectegteg etgetegagg acteggagga egacetgetg 480 agegaeagtg agageeggag eegeggeaae gtgeagetgg aagegggega ggaegtgggt 540 cagaaaaacc actggcagaa gatccggacc atggtcaatc tgccggtcat aagccctttc 600 aagaagcget acgeetgggt geagetggea gggeacaetg ggagttttaa ggeggeggge 660 720 accageggge tgateetgaa gegetgeteg gageeggage getaetgeet ggegeggetg

atggctgacg	cgctgcgcgg	ctgcgtgcct	gccttccacg	gcgtggtgga	gcgcgacggc	780
gaaagctacc	tgcagctgca	ggacctgctc	gatggcttcg	acggaccttg	tgtgctcgac	840
tgcaaaatgg	gcgtcaggac	ttacctagag	gaggagctga	ccaaggcccg	tgagcggccc	900
aagctgcgga	aggacatgta	caagaaaatg	ctggcggtgg	atcctgaagc	tcccacggag	960
gaggagcacg	cgcagcgcgc	cgtcaccaag	ccgcgctaca	tgcagtggcg	ggaaggcatc	1020
agctccagca	ccaccctcgg	cttccgcatc	gagggcatca	agaaagcgga	cggctcctgc	1080
agcaccgact	tcaagactac	gcgaagccga	gagcaggtgc	ttcgcgtctt	tgaagagttt	1140
gtgcaaggag	atgaggaagt	gctgaggcgg	tatctgaacc	gcctgcagca	gatccgggac	1200
accctggagg	tatccgagtt	cttcaggagg	cacgaggtga	tcggcagctc	gctcctcttt	1260
gtgcacgatc	actgccatcg	cgccggcgtg	tggctcatcg	acttcggcaa	gaccacgccc	1320
ctccccgatg	gccagatcct	ggaccaccgg	cggccctggg	aggagggcaa	ccgcgaggac	1380
ggctatttgc	tggggctgga	caatctcatt	ggcatcctgg	ccagcctggc	tgagagatga	1440
ggctggactc	ctgtccccgc	gggccgctca	cctgacatgt	ggacctgcag	ctttgtcccc	1500
actgtgcatg	ccggcttgag	actggagccc	cgcggtgcag	ggcagttcac	cgggtcctgc	1560
aggaccaggt	gccagccact	aaggggggc	accgccgatg	ccaggggttt	tgcccacccg	1620
ggccccagcg	ttcccagagc	caaatgacac	taacttatag	aaggggaggg	ggcaaagggc	1680
ttcttcctca	ggccagctct	tctgaggagg	ctctgccctc	tccagaggtg	ccagaccgcg	1740
gattttattt	agcaagccca	gaccttccgg	tctaacgtct	cacaccacga	cggactcccc	1800
ttcctaataa	aactcaaaga	caaaaaaaaa	aaaaaaa			1837

<210> 3

<211> 5875

<212> DNA

<213> Homo sapiens

<400> 3

ggagccgcgg	cggcgggcag	cgcgggaccc	agtactatgg	ctgtgtactg	ctatgcgctc	60
aatagcctgg	tgatcatgaa	tagcgccaac	gagatgaaga	geggeggegg	cccggggccc	120
agtggcagcg	agacgccccc	gcccccgagg	agggcagtgc	tgagccccgg	cagegtttte	180
agccccggga	gaggcgcctc	tttcctcttc	ccccagccg	agtcgctgtc	ccccgaggag	240
ccccggagcc	ccgggggctg	gcggagcggc	cggcgcaggc	tgaatagtag	cageggeagt	300
ggcagcggca	gcagcggcag	tagcgtgagc	agcccaagtt	gggctggtcg	cctgcgaggg	360

gaccggcagc	aggtggtggc	agccggtacc	ctctccccgc	cagggccgga	ggaggccaag	420
aggaagctgc	ggatcttgca	gcgcgagttg	cagaacgtgc	aggtgaacca	gaaagtgggc	480
atgtttgagg	cgcacatcca	ggcacagagc	tccgccattc	aagcgccccg	cagcccgcgt	540
ttgggcaggg	ctcgctcgcc	ctccccgtgc	cccttccgca	gcagcagtca	gccccctgga	600
agggtcctgg	ttcagggcgc	ccggagcgag	gaacggagga	caaagtcctg	gggggagcaa	660
tgtccagaga	cttcaggaac	cgactccggg	aggaaaggag	ggcccagcct	atgctcctcg	720
caggtgaaga	aaggaatgcc	acctcttccc	ggccgggctg	cccctacagg	atcagaggct	780
cagggtccat	ccgcttttgt	aaggatggag	aagggtatcc	ctgccagtcc	ccgctgtggc	840
tcacccacag	ctatggaaat	tgacaaaagg	ggctctccta	ccccgggaac	teggagetge	900
ctagctccct	cattggggct	gttcggagct	agcttaacga	tggccacgga	agtggcagcg	960
agagttacat	ccactgggcc	acaccgtcca	caggatcttg	ccctcactga	gccgtctggg	1020
agagcccgtg	agcttgagga	cctgcagccc	ccagaggccc	tggtggagag	gcaggggcag	1080
tttctgggca	gtgagacaag	cccagcccca	gaaaggggcg	ggccccgcga	tggagaaccc	1140
cctgggaaga	tggggaaagg	atatctgccc	tgtggcatgc	cgggctctgg	ggagcctgaa	1200
gtgggcaaaa	ggccagagga	gacgactgtg	agcgtgcaaa	gcgcagagtc	ctctgattcc	1260
ctgagctggt	ccaggctgcc	cagggccctg	gcctccgtag	gccctgagga	ggcccgaagt	1320
ggggcccccg	tgggcggggg	gcgttggcag	ctctccgaca	gagtggaggg	agggtcccca	1380
acgctgggct	tgcttggggg	cageceetea	gcacagccgg	ggaccgggaa	tgtggaggcg	1440
ggaatteett	ctggcagaat	gctggagcct	ttgccctgtt	gggacgctgc	gaaagatctg	1500
aaagaacctc	agtgccctcc	tggggacagg	gtgggtgtgc	agcctgggaa	ctccagggtt	1560
tggcagggca	ccatggagaa	agccggtttg	gcttggacgc	gtggcacagg	ggtgcaatca	1620
gaggggactt	gggaaagcca	gcggcaggac	agtgatgccc	tcccaagtcc	ggagctgcta	1680
ccccaagatc	aggacaagcc	tttcctgagg	aaggcctgca	gccccagcaa	catacctgct	1740
gtcatcatta	cagacatggg	cacccaggag	gatggggcct	tggaggagac	gcagggaagc	1800
cctcggggca	acctgcccct	gaggaaactg	tcctcttcct	cggcctcctc	cacgggcttc	1860
tcctcatcct	acgaagactc	agaggaggac	atctccagtg	accctgagcg	caccctggac	1920
cccaactcag	ccttcctgca	taccctggac	cagcagaaac	ctagagtgag	caaatcatgg	1980
aggaagataa	aaaacatggt	gcactggtct	cccttcgtca	tgtccttcaa	gaagaagtac	2040

ccctggatcc agctggcagg	acacgcaggg	agtttcaagg	cagctgccaa	tggcaggatc	2100
ctgaagaagc actgtgagtc	agagcagcgc	tgcctggacc	ggctgatggt	ggatgtgctg	2160
aggcccttcg tacctgccta	ccatggggat	gtggtgaagg	acggggagcg	ctacaaccag	2220
atggacgacc tgctggccga	cttcgactcg	ccctgtgtga	tggactgcaa	gatgggaatc	2280
aggacctacc tggaggagga	gctcacgaag	gcccggaaga	agcccagcct	gcggaaggac	2340
atgtaccaga agatgatcga	ggtggacccc	gaggccccca	ccgaggagga	aaaagcacag	2400
cgggctgtga ccaagccacg	gtacatgcag	tggcgggaga	ccatcagctc	cacggccacc	2460
ctggggttca ggatcgaggg	aatcaagaaa	gaagacggca	ccgtgaaccg	ggacttcaag	2520
aagaccaaaa cgagggagca	ggtcaccgag	gccttcagag	agttcactaa	aggaaaccat	2580
aacateetga tegeetateg	ggaccggctg	aaggccattc	gaaccactct	agaagtttct	2640
cccttcttca agtgccacga	ggtcattggc	agctccctcc	tcttcatcca	cgacaagaag	2700
gaacaggcca aagtgtggat	gatcgacttt	gggaaaacca	cgcccctgcc	tgagggccag	2760
accctgcage atgacgtecc	ctggcaggag	gggaaccggg	aggatggcta	cctctcgggg	2820
ctcaataacc tcgtcgacat	cctgaccgag	atgtcccagg	atgccccact	cgcctgagct	2880
geccaegece teectggece	ccgcctgggc	ctcctttcct	cctcctgtgc	ttcctttctc	2940
gttcctaact tttccttcac	ttacacctga	ctgaccctcc	tgaactgcac	tacaagacac	3000
tttgtagaag aggagatgag	agtttctagt	cattttccta	acttcagggc	ttggaggtgg	3060
tgtttgcact gctttttgta	gagagggtca	cctactagaa	gagaaatgcc	cagtcttaga	3120
ggtgggtcag gtgtagagct	ggaggggtc	cctggctgct	gaggggaccc	taccagatga	3180
geeetgeete tgggageeee	ctaggaagca	ccagcctgga	cctaccacct	gcggaggcct	3240
gctgccccct ggcggccagt	gctgttagag	tgctgccaag	cacagcctta	tttctgccgg	3300
ggcctcccca ccggagagcc	cagggggccg	gccgggttcc	tggtccctgg	ctgggagcag	3360
ggetttetgg tagttgggge	acaaaaccat	cggggaacca	catgttgact	gtgagcaaag	3420
tgtcttccga ttagcagect	cagggatgcc	ctggtggcct	ctccagggct	gctcaggcaa	3480
ggcccccac ccatctggta	tggaaacctg	ccggctccag	gccagaccca	ggagccaaga	3540
gaaggctgaa gccagcttgg	ctgtgttctc	tgatctaggc	cttcccagag	gaggcgagca	3600
gaagetgtge caettggaat	tgcaacccat	gagttcagaa	ggcacactct	gccatgctga	3660
gctccaaggg tgctaccagg	ggaagatggg	atctatagag	tctctgggcc	ctggccccag	3720
ggaggagcac atttttcttg	accctcacct	acctggtgct	agttggtcaa	ccctgcctgc	3780

atacatgggc	tcctgtcatg	gggcccagag	tcccttgcag	atatagaaat	aggggaggag	3840
ctcaggtctg	cgccaggcag	gaagaaggca	ggcttctggc	ttccagaggt	gccgcggtgg	3900
cctcctggca	tcatttgtta	ttgcctctga	aacaagcctt	actgcctgga	gggcttagat	3960
tectgettet	ccaatgtagt	gtgggtatct	tgtagggtat	gtggtggatg	ccagggcgtg	4020
ctccaggcac	ctcttcctga	agtctctgca	tttggagatt	cgtggagaac	ctatttaagc	4080
ccaattttaa	ctgaaagcca	gtgagtctga	tatggaaggg	aatgtaaaat	ttgcctgact	4140
tcttaagaac	aaaaccccca	gctctgtgcc	ccatgctcct	tggggcttgc	cacccactcc	4200
tttgctgtca	gaggtacagg	agctgggaga	gtccaggagc	tagggacaca	gagggagact	4260
atggaccaag	gtgtgtgtgt	ctggaggaac	cactgcccac	cccaccaccc	cggggtctct	4320
ggggaactgt	caacctgccc	acgggacatg	tacatttccc	cttttgtgct	ggaagtgtga	4380
gtgacacttg	ctgggggtgg	agggtgggac	acatgaggat	gtataagtac	agattttaaa	4440
aaaggaaatc	aacttacact	tcctggctct	tgtttaaaac	agtggtgagc	tcctgtgtgg	4500
gccgacttgc	taaaggtcac	acacgcgccc	ggtggagcac	gagagacctc	gtggcagcat	4560
gtgatctgga	aggcaggcag	gacgggggcg	ttggggagcc	aaagtcaact	ctgggcctct	4620
ggagctatag	tgacttttgg	gctagaaggg	accctggtgg	tctgtgcttc	agccatttgc	4680
agggcagggg	catcattaat	tcagacgtaa	agattctatg	aatatggact	ggccaaaagt	4740
tatccttact	ccatctgtga	aagaagtttg	ctaaagcaaa	tcatgatatg	aacaaaaatt	4800
acaggggacc	tgtttaagag	aacaaaatgt	tccaagcact	ttaggcagac	accagctgtt	4860
tgcaaacaat	gtgctaatat	gcaaatgatg	tgcttattaa	aggaggccca	tggggcctct	4920
tattggcaat	acttggctgt	gggttacatt	aaatatgtga	acatagtatg	aagtagcatc	4980
attttagggt	tattctgtta	cttagggttt	ttgttttctg	tttttttt	ctctttttt	5040
gtatttaccg	tgctagttct	cttctacacc	tactctgtct	ctcaagccat	tttgccactc	5100
gcttccctgc	catctggccc	ttccctttgt	ctcagtggga	tagatggatt	gtgaaatgga	5160
atctcccaga	acccctgccc	tggcagcctg	gaagaccgtg	cctgcccagc	cctcgtcacc	5220
acagggactc	cttgggtcct	ggcagtgcat	gtgccagcag	gcaggacaaa	ctctgtgtac	5280
ctgtgcccag	gtgaatgggc	gcagggtcct	cttgccctgt	cctgcggggg	gccccacgag	5340
ttcctggcat	tcagcactgc	ttagcattct	cggaaggttt	cttcaactgc	ttgcttttcc	5400
caggettgee	tttagtgtca	tgtaagacat	ttttaagtta	tatttatttt	gttgggtttt	5460

aaaattgcac	agaacactaa	gaccgaaagg	ctggactctt	gtttctcctt	gaaagctttg	5520
cctttgtttt	gaacttcctt	tcccacttgg	tagaaagagc	ccagaagcag	ccctggccct	5580
gtaagatgga	ctctttcatc	cttcagttgt	atttagcttt	gagtttctct	gcatctgtcc	5640
accccatgtg	tatataaccc	agcccctggc	tetggggtgg	tcacctcgtc	agtgcctttt	5700
gttctggagg	agaggacccc	ccccgcctgc	cgagaggctc	tetteetgtt	ctgcacccct	5760
ctccccatgg	gaccttggag	aaaactgaac	tgttacaaac	ccctgcacag	tgcctgtcaa	5820
acagatgcaa	accttcctga	ataaagcctt	ggagaccaaa	aaaaaaaaaa	aaaaa	5875

<210> 4

<211> 4505

<212> DNA

<213> Homo sapiens

<400> 4

gaatteegga gggagggte	c ccaacgctgg	gcttgcttgg	gggcagcccc	tcagcacagc	60
cggggaccgg gaatgtgga	g gcgggaattc	cttctggcag	aatgctggag	cctttgccct	120
gttgggacgc tgcgaaaga	t ctgaaagaac	ctcagtgccc	tcctggggac	agggtgggtg	180
tgcagcctgg gaactccag	g gtttggcagg	gcaccatgga	gaaagccggt	ttggcttgga	240
cgcgtggcac aggggtgca	a tcagagggga	cttgggaaag	ccagcggcag	gacagtgatg	300
ccctcccaag tccggagct	g ctaccccaag	atcaggacaa	gcctttcctg	aggaaggcct	360
gcagccccag caacatacc	t gctgtcatca	ttacagacat	gggcacccag	gaggatgggg	420
ccttggagga gacgcaggg	a agccctcggg	gcaacctgcc	cctgaggaaa	ctgtcctctt	480
cctcggcctc ctccacggg	c ttctcctcat	cctacgaaga	ctcagaggag	gacatctcca	540
gtgaccctga gcgcaccct	g gaccccaact	cagctttcct	gcataccctg	gaccagcaga	600
aacctagagt gagcaaatc	a tggaggaaga	taaaaaacat	ggtgcactgg	tctcccttcg	660
tcatgtcctt caagaagaa	g tacccctgga	tccagctggc	aggacacgca	gggagtttca	720
aggcagctgc caatggcag	g atcctgaaga	agcactgtga	gtcagagcag	cgctgcctgg	780
accggctgat ggtggatgt	g ctgaggccct	tegtacetge	ctaccatggg	gatgtggtga	840
aggacgggga gcgctacaa	c cagatggacg	acctgctggc	cgacttcgac	tegecetgtg	900
tgatggactg caagatggg	a atcaggacct	acctggagga	ggagctcacg	aaggcccgga	960
agaagcccag cctgcggaa	g gacatgtacc	agaagatgat	cgaggtggac	cccgaggccc	1020
ccaccgagga ggaaaaagc	a cagcgggctg	tgaccaagcc	acggtacatg	cagtggcggg	1080

agaccatcag ctccacggcc	accctggggt	tcaggatcga	gggaatcaag	aaagaagacg	1140
gcaccgtgaa ccgggacttc	aagaagacca	aaacgaggga	gcaggtcacc	gaggccttca	1200
gagagttcac taaaggaaac	cataacatcc	tgatcgccta	tcgggaccgg	ctgaaggcca	1260
ttcgaaccac tctagaagtt	tctcccttct	tcaagtgcca	cgaggtcatt	ggcagctccc	1320
tcctcttcat ccacgacaag	aaggaacagg	ccaaagtgtg	gatgatcgac	tttgggaaaa	1380
ccacgcccct gcctgagggc	cagaccctgc	agcatgacgt	cccctggcag	gaggggaacc	1440
gggaggatgg ctacctctcg	gggctcaata	acctcgtcga	catcctgacc	gagatgtccc	1500
aggatgeece actegeetga	gctgcccacg	ccctccctgg	cccccgcctg	ggcctccttt	1560
cctcctcctg tgcttccttt	ctcgttccta	acttttcctt	cacttacacc	tgactgaccc	1620
tcctgaactg cactacaaga	cactttgtag	aagaggagat	gagagtttct	agtcattttc	1680
ctaacttcag ggcttggagg	tggtgtttgc	actgcttttt	gtagagaggg	tcacctacta	1740
gaagagaaat gcccagtctt	agaggtgggt	caggtgtaga	gctggagggg	gtccctggct	1800
gctgagggga ccctaccaga	tgagccctgc	ctctgggagc	cccctaggaa	gcaccagcct	1860
ggacctacca cctgcggagg	cctgctgccc	cctggcggcc	agtgctgtta	gagtgctgcc	1920
aagcacagcc ttatttctgc	cggggcctcc	ccaccggaga	gcccaggggg	ccggccgggt	1980
teetggteee tggetgggag	cagggettte	tggtagttgg	ggcacaaaac	catcggggaa	2040
ccacatgttg actgtgagca	aagtgtcttc	cgattagcag	cctcagggat	gccctggtgg	2100
cctctccagg gctgctcagg	caaggccccc	cacccatctg	gtatggaaac	ctgccggctc	2160
caggccagac ccaggagcca	agagaaggct	gaagccagct	tggctgtgtt	ctctgatcta	2220
ggccttccca gaggaggcga	gcagaagctg	tgccacttgg	aattgcaacc	catgagttca	2280
gaaggcacac tetgecatge	tgagctccaa	gggtgctacc	aggggaagat	gggatctata	2340
gagtetetgg gecetggeee	cagggaggag	cacattttc	ttgaccctca	cctacctggt	2400
gctagttggt caaccctgcc	tgcatacatg	ggctcctgtc	atggggccca	gagtcccttg	2460
cagatataga aataggggag	gagctcaggt	ctgcgccagg	caggaagaag	gcaggettet	2520
ggcttccaga ggtgccgcgg	tggcctcctg	gcatcatttg	ttattgcctc	tgaaacaagc	2580
cttactgcct ggagggctta	gattcctgct	tccccaatgt	agtgtgggta	tcttgtaggg	2640
tatgtggtgg atgccagggc	gtgctccagg	cacctcttcc	tgaagtctct	gcatttggag	2700
attcgtggag aacctattta	agcccaattt	taactgaaag	ccagtgagtc	tgatatggaa	2760
gggaatgtaa aatttgcctg	acttcttaag	aacaaaaccc	ccagctctgt	gccccatgct	2820

ccttggggct tgccaccc	ac tcctttgctg	tcagaggtac	aggagctggg	agagtccagg	2880
agctagggac acagaggg	ag actatggacc	aaggtgtgtg	tgtctggagg	aaccactgcc	2940
caccccacca ccccgggg	tc tctggggaac	tgtcaacctg	cccacgggac	atgtacattt	3000
ccccttttgt gctggaag	tg tgagtgacac	ttgctggggg	tggagggtgg	gacacatgag	3060
gatgtataag tacagatt	tt aaaaaaggaa	atcaacttac	acttcctggc	tcttgtttaa	3120
aacagtggtg agctcctg	tg tgggccgact	tgctaaaggt	cacacacgcg	cccggtggag	3180
cacgagagac ctcgtggc	ag catgtgatct	ggaaggcagg	caggacgggg	gcgttgggga	3240
gccaaagtca actctggg	cc tctggagcta	tagtgacttt	tgggctagaa	gggaccctgg	3300
tggtctgtgc ttcagcca	tt tgcagggcag	gggcatcatt	aattcagacg	taaagattct	3360
atgaatatgg actggcca	aa agttatcctt	actccatctg	tgaaagaagt	ttgctaaagc	3420
aaatcatgat atgaacaa	aa attacagggg	acctgtttaa	gagaacaaaa	tgttccaagc	3480
actttaggca gacaccag	ct gtttgcaaac	aatgtgctaa	tatgcaaatg	atgtgcttat	3540
taaaggaggc ccatgggg	cc tcttattggc	aatacttggc	tgtgggttac	attaaatatg	3600
tgaacatagt atgaagta	gc atcattttag	ggttattctg	ttacttaggg	tttttgtttt	3660
ctgtttttt tttctctt	tt tttgtattta	ccgtgctagt	tctcttctac	acctactctg	3720
tctctcaagc cattttgc	ca ctcgcttccc	tgccatctgg	cccttccctt	tgtctcagtg	3780
ggatagatgg attgtgaa	at ggaatctccc	agaacccctg	ccctggcagc	ctggaagacc	3840
gtgcctgccc agccctcg	tc accacaggga	ctccttgggt	cctggcagtg	catgtgccag	3900
caggcaggac aaactctg	tg tacctgtgcc	caggtgaatg	ggcgcagggt	cctcttgccc	3960
tgtcctgcgg ggggcccc	ac gagtteet				